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Vote on "Whether any of the communications under inspection are worthy of the Premium?" Passed in the Affirmative.

"The Society then proceeded to determine by ballot the inventions or improvements most useful & worthy."

"A premium was awarded to the Inventor of the Improvement of Electrical Rods, or Lightning Conductors, by pointing them with Blacklead."

"A premium was also awarded to a Piece entitled 'Cadmus,' or a Philosophical Dissertation on the Elements of Written Language."

"Ordered that a full account of the crowned subjects, be published, and also an abstract of the Titles, object or subject matter of the communications which lie over for consideration."

Auditors appointed : Patterson and Williams.

1793. *Jan'y 4, 2½ p. m.* (11 present, including Burgess Allison* of Bordentown.)

The Auditing Committee reported £1 16 10 in the Treasurer's hands, and £164 10 6 in the Magellanic Fund.

ELECTION OF OFFICERS AND COUNCIL.

President—Dr. D. Rittenhouse.

Vice-Presidents—T. Jefferson, Dr. J. Ewing, Dr. W. Smith.

Treasurer—J. Vaughan.

Curators—Dr. B. Barton, Dr. Wistar, Mr. Peale.

Councillors for three years—Dr. J. Thornton, Chief Justice McKean, W. Barton and Dr. Blackwell.

Secretaries—Hutchinson, Williams, Magaw, Patterson.

[Then follows a page of the record of the publication ordered at the last meeting, respecting Philo-Franklin's Blacklead rod points; then, eight blank pages evidently intended to continue the relation.]

* Spelled *Burgiss* Allison in Catalogue of March, 1880.

1793. *Jan'y 18.* (Jefferson, Vice-President ; Dr. Parke, Le Geaux, Currie, and 15 others.)

A comet discovered by Rittenhouse, 8 p. m., January 11, was reported by letter.

“Facts relating to the Climate of Pennsylvania, recorded among the old acts of the Swedish Church of this city” were communicated by letter by Dr. Collin.

“A Plan for the establishment of the Vine culture in Pennsylvania by means of a public subscription, authorized and protected by Government,” with a statement of the annual Expense and Produce, was communicated by letter by M. Le Geaux.

Jeremy Belknap’s “Discourse, to commemorate the Discovery of America” was presented.

Committee “to prepare the Devices and other Particulars relative to the Gold Medals”; Rittenhouse, W. Barton, Peale, afterwards added: Thornton and Blakely.

Treasurer directed to procure shelves for holding Books, Maps, Papers, &c., as soon as he shall have moneys which may be applied to that purpose.

Committee of two members with the Curators to revise and print the Catalogue of Books, Philosophical apparatus, Models of machines, and the more important specimens of Natural History.

Election of six new members: M. Coupigny and M. Valentin of Cap François; John Adams, Vice-President United States, Dr. David Nassy and Dr. George Logan, of Philadelphia; J. W. Kittera, of Lancaster, Pa., of the House of Representatives United States. [Two pages in the rear of its place.]

1793. *Feb'y 1.* (Rittenhouse, Jefferson, John Adams, Page of Virginia, and 6 others.)

The Map of Pennsylvania by Reading Howill, of Pittsburgh, with a letter of presentation. “The map is large & beautifully executed. Altho’ the author was obliged, he

says, to bring it to its present Form, from detached surveys; there is reason to believe, his Abilities and Diligence enabled him to avail himself, to good purpose, of those Documents. From such actual Surveys may be expected, in a Work of this Kind, the greater accuracy." Thanks ordered.

"A dissertation on the Honey Bee showing that it is not a Native of America. By Dr. Barton, was communicated."

1793. *Feb'y 15.* (Jefferson, Vice-President, and 10 others.)

Aitken's letter about paper for Vol. III was read, and referred to the Committee with power.

Dr. Thornton was permitted "to have printed on his own account the Dissertation entitled Cadmus," the Society reserving the right to print it also in the Transactions.

Ordered that all the Books at present lent be immediately returned, and no more go out until the Catalogue be completed.

[END OF THE MS. VOL. OF MINUTES, marked 1787 to 1793.]

1793. *March 1.* (Ruston, Chairman, and 7 others.)

The Committee reported that Mr. Aitkin should be reimbursed, the \$113 which he advanced over and above the subscription for paper, and furnished with enough more to buy enough paper to complete Vol. III, and that all the approved papers be immediately printed, and the Volume closed. This report was approved; the advanced \$113 ordered paid; and the Treasurer authorized to borrow for the rest: the printer to refund the advances from first sales.

1793. *March 15.* (Jefferson and 7 others.)

A letter from R. Vall-Travers, Rotterdam, December 13, with "A new method of Carding, Spinning & Weaving raw Hemp, superior to & cheaper than Linnen [sic]. The Inventor is a French emigrated Gentleman from Guiene now in Holland—with his wife. Mr. Vall-Travers solicits en-

couragement, if their talents appear to deserve it; and offers to take order therein, if authorized to make proposals officially."

"There were specimens enclosed."

"Mr. Dandivan (for that is the name of the Artist) gives, in a separate paper, a succinct account of the respective charges and profits producing at a small expense from even the worst of hemp, a thread far superior to the very finest linen thread from flax. He engages to construct Looms by which a weaver can make much more & better work than any other. He has contrived a more easy & convenient spinning-wheel." Patterson, Nicholson and Williams a Committee to report thereon.

M. V.-T. presented "Le vrai Calendrier perpetual &c.," "ordered to be deposited in Mr. Peale's Museum,"* for the examination of the curious."

1793. April 5. (Turner, Chairman; Patterson, Vaughan, Peale, Thornton, Blakely, Magaw.

The Committee on Hemp reported:

1. That information of the communication should be made to the different manufacturing societies.
2. That Mr. Vall-Travers should have explained to him by letter the American system of patent rights; the abundance of hemp in America, & the readiness of several persons to employ Mr. Dandivan if his invention answers the description.

Dr. Thornton and Mr. Vaughan were added to the Committee.

Wm. Waring communicated "retrospective observations on the following position contained in his Theory of Mills, viz.: That the force of an invariable stream impinging against a mill wheel in motion is in the simple direct ratio of the relative velocity." Referred to Committee on Publication.

* The first notice of this museum, which occupied at one time part of the State House, and at another time part of the Philosophical Society's Hall.

Jos. Barnes' essay, "On Overshot & Undershot wheels & Rumsey's Mill" was read. It opposed Waring's positions.

Mr. Waring's observations on the above were then read.

Jos. Barnes' reply to these, as "Notes," was then read.

Mr. Williams sent in, as a present to the Society, bills which he had paid for sundries for the Hall in 1792, amounting to \$40. Thanks ordered.

1793. April 19. (Rittenhouse, Duponceau and 16 others.)

Election of three new members: Wm. Waring and Thos. Lee Shippen, of Philadelphia; and J. Reinhold Foster J. U. D.

Mr. Dallas and Mr. Patterson proposed "that in the case of *Electing new members* the Election shall not be held but when the members who proposed the candidates respectively shall be present, and that the state of the Ballots shall not be declared at any election until the Society are about to adjourn on the evening of such Election." Consideration deferred.

"A subscription paper for raising a sum of money to enable Andrew Michaux to make discoveries in the Western Country being read:

"*Resolved*, That the Society will patronize this undertaking, according to the terms and condition expressed in said subscription; a copy of which here followeth; viz.

[A blank page evidently left for the subscription paper.]

"*Resolved*, That a committee of 5 be appointed to solicit further subscription . . ." Hutchinson, Vaughan, Wistar, Williams, Nicholson.

"*Resolved*," That Collin, Vaughan, and Peale "be appointed a Committee to collect the Subscriptions & pay the same to the President of the Society, for the use of Mr. Michaux."

"*Resolved*, That" Rittenhouse, Smith, Ewing, Jefferson, Rush, Wistar, "or any three of them be a Committee to confer with Mr. Michaux & frame Instructions for his observance; the better to promote the advantages of his Tour . . ."

1793. *April 30. Special.* (Rittenhouse, Jefferson and 10 others.)

Report of Committee of Instructions to Mr. Michaux, adopted, "as followeth."

[A blank 1½ pages evidently left for the report.]

"*Resolved,* That the President be requested to pay to Mr. Michaux, such sum of the subscription as he hath or may receive;—not exceeding 400 dollars."

[Then follow three blank pages.]

1793. *July 19.*

"The"

[The rest of the page and the following page blank.]

1793. *Dec. 6.*

"The Society met (having on account of the malignant fever, with which this city was lately visited, held no meeting during the last four months).

Present, Dr. Collin, Chairman & Robert Patterson.

Books received: Zimmerman's "Zoologiæ geographicæ," &c. 4°; and his "Traité de l'elasticité de l'eau"; also Dobson's American Edition of the Encyclopædia, Vols. VI, VII, VIII, IX.

Secretary Williams resigns because "he did not propose to live in town this winter."

"Papers from candidates to the annual premium," "referred to the Counsellors and other officers of the Society."

1793. *Dec. 13.* (Ewing, Wistar, Peale, Patterson.)

Essay on the Theory of the Tides, "recommended to the consideration of the Society, along with the papers still pending."

1793. *Dec. 20.* (Patterson in the Chair; Barton, Wistar, Peale, Legaux, Dr. Nassy, and Dr. Thornton.)

Adjudication of premiums “necessarily postponed till the time of the next annual adjudication.”

1794. *Jan. 3.* (Thornton, B. S. Barton, Davidson, Judges; Nassy, Vaughan, Clerks; Rittenhouse, Legeaux, Dr. Smith, Patterson, Davidson, Magaw, Duffield, Wistar, Williams, W. Barton.)

“Mr. W. Barton resigned his place as Counsellor.”

ELECTION OF OFFICERS.

President—Rittenhouse.

Vice-Presidents—Jefferson, Ewing, W. Smith.

Treasurer—Vaughan.

Curators—B. S. Barton, C. Wistar, C. W. Peale.

Counsellors—Jon. Williams, J. Andrews, D.D., And. Elliott, S. P. Griffiths, M.D., Jas. Davidson, in place of W. Barton.

Secretaries—Nich. Collin, D.D., W. Barton, R. Patterson, S. Magaw, D.D.

“Immediately after the election, the Society proceeded to other business, Mr. Jas. Davidson in the Chair.”

Patterson and Williams, Auditing Committee.

“*Resolved*, That in the Election of New Members, no person shall be balloted for, unless one of the members who proposed him be present; except the contrary shall be determined by a previous Vote of the Society; & that the Election shall be kept open; & the State of the Ballots not declared, till the Society are about to adjourn in the evening of said Election.”*

Proposition to fine resident members twenty-five cents for non-attendance.

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*This explains the curious present practice of leaving the ballot-box standing unexamined until after “New Business” has been disposed of.